

Message Text

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C O N F I D E N T I A L SECTION 01 OF 04 OECD PARIS 07419

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW-IL 1564-INTEGRATED CIRCUITS

REFS: A. COCOM DOC REV (74) 1164/1, 2, AND 3
B. OECD PARIS 6550

WPAFB FOR HOWARD STEENBERGEN

SUMMARY: ON MARCH 19 THE JAPANESE PROPOSALS FOR II (A) AND (B) WERE ACCEPTED BY ALL DELS EXCEPT THE US WHICH RE-SERVED ON II (A)(2), (3) AND II (B). THE UK PROPOSAL FOR PART II (C) WAS CONSIDERED THE BASIS FOR DISCUSSION OF THIS ITEM AND ALL OTHER COUNTRIES WITHDREW THEIR OWN PROPOSALS. TEMPERATURE RANGE WAS A MAJOR STUMBLING BLOCK AGAINST ACCEPTANCE BY ALL DELS OF SOME SUBITEMS. ALL DELS ACCEPTED THE HEADING, (I), (II)(A) AND (II) (B) WITH SOME AMENDMENTS. PART (III) WAS ACCEPTED BY ALL DELS. ALL DELS ACCEPTED PART (IV) EXCEPT THE US AND ITALY. THE US RESERVED ON PART (V)(D) AND (VI) WHILE ALL OTHER DELS ACCEPTED (VI) BUT REMANDED (V) TO A TWG FOR FURTHER DISCUSSION. ALL DELS ACCEPTED PARTS (VII), (VIII), (IX) AND

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(X) WITH SOME DISAGREEMENT ON THE TEMPERATURE RANGE IN

(X). ALL DELS AGREED TO THE UK'S NOTES 1, 4 AND 6 SINCE THEY REPRESENTED NO CHANGE FROM THE PRESENT NOTES. THE US WAS THE SOLE RESERVING DELEGATION IN NOTES 2 AND 5 WHILE NOTE 3 WAS ACCEPTED BY ALL EXCEPT FOR THE TEMPERATURE RANGE. ACTION REQUESTED: TRANSMISSION OF INSTRUCTIONS FOR PENDING SUBITEMS. END SUMMARY. NOTE: IN TEMPERATURE PARAMETERS WHICH FOLLOW, THE SYMBOL "#" REPRESENTS "PLUS". THE DEGREE SYMBOL IS TAKEN AS UNDERSTOOD.

1. DISCUSSION WAS OPENED WITH AGREEMENT BY ALL DELEGATIONS TO USE THE FORMAT PREPARED BY A TECHNICAL WORKING GROUP DURING ROUND I AS THE BASIS FOR DISCUSSION. ADDITIONALLY, BECAUSE THE UK HAD BEEN THE ONLY DELEGATION TO DATE TO FILL IN PARAMETRIC FIGURES LEFT BLANK BY THE TECHNICAL ADVISORS, THOSE FIGURES WITH SUBSEQUENT AMENDMENTS WERE ACCEPTED AS THE BASIS FOR DISCUSSION IN ROUND II CABLED IN REF B. IN THE ABSENCE OF SPECIFIC INSTRUCTIONS, US PARTICIPATION WAS BASED ON THE FINDINGS OF THE SEMICONDUCTOR TECHNICAL ADVISORY COMMITTEE AND THE ESTABLISHED VIEWS OF ALL INTERESTED AGENCIES APPLIED UNDER THE GENERAL POLICY INSTRUCTIONS OF APPROPRIATE NSDM'S INCLUDING 159 AND 222.

2. THE US WAS ASKED, AS THE SOLE RESERVING MEMBER IN ROUND I TO THE DELETION OF II (A)(1) AND (2), HIGH DENSITY ASSEMBLIES, FOR ITS POSITION. THE US AGREED AD REF TO THE DELETION OF (A)(1), BUT RESERVED ON THE DELETION OF (2) AND (3) ON THE GROUNDS THAT THE DELETION OF (A) (2) AND (3) WOULD PERMIT EXPORT OF ASSEMBLIES CONTAINING ANY NUMBER OF IC'S AND DISCREET DEVICES WHICH CAN BE MORE MILITARILY CRITICAL THAN THE IC'S THEMSELVES. SUCH ASSEMBLIES AS HIGH SPEED ANALOG TO DIGITAL CONVERTERS WHICH CONTAIN 99 PERCENT IC'S AND 1 PERCENT DISCREET COMPONENTS ARE GROWING IN IMPORTANCE AS THE HANDLING OF MILITARY INFORMATION RECEIVED IN THE ANALOG MODE DEPENDS ON EVEN EARLIER CONVERSION OF THAT DATA INTO DIGITAL FORM. ASSEMBLAGES ARE CRITICAL TO THAT APPROACH IN, FOR EXAMPLE, FEEDING WIDE BASEBAND INFORMATION INTO ONE OR MANY ON-BOARD COMPUTERS. JAPAN HAD ARGUED THAT

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NO EXCEPTIONS CASES HAD BEEN RECEIVED FOR SUCH ASSEMBLIES AND THAT THEY HAVE BEEN REPLACED BY MICROCIRCUITS AND NO LONGER EXIST IN JAPAN. THE NETHERLANDS MAINTAINED ITS SUPPORT FOR DELETION BECAUSE THESE ASSEMBLIES DO NOT APPEAR IN COMMERCIAL CATALOGUES AND IT DID NOT KNOW WHAT COMPONENTS MIGHT BE INCLUDED IN SUCH ASSEMBLIES. FRANCE EXPLAINED ITS CONTINUED SUPPORT FOR DELETION ON THE BASIS THAT THE ASSEMBLIES ARE NO LONGER MANUFACTURED AND

THE EXAMPLE CITED BY THE US WOULD BE EMBARGOED BY PARAMETERS APPEARING ELSEWHERE IN THE LISTS. CANADA WAS OPEN

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MINDED ON THE BASIS THAT IF THERE HAD BEEN NO EXCEPTIONS REQUESTS THEN CONTINUED LISTING SHOULD NOT CAUSE ANY PROBLEMS. ITALY AND FRANCE LIFTED THEIR ROUND I RESERVES ON (A)(3) AND ALL DELS EXCEPT THE US VOTED TO DELETE (A) (2) AND (3).

3. THE OTHER DELEGATIONS BELIEVED THAT FINAL ACCEPTANCE OF THE JAPANESE REWORDING OF II (B), PRINTED CIRCUIT BOARDS (PCB'S), SHOULD BE DEFERRED PENDING THE OUTCOME OF DISCUSSION RE IL 1565, COMPUTERS, TO WHICH THIS SUB-ITEM IS LINKED. THE US RESERVED AND EXPLAINED THAT ITS CONCERN IS SPECIFICALLY RELATED TO CALCULATORS AND CALCULATOR COMPONENTS SUCH AS MEMORIES WHICH MIGHT BE MOUNTED ON PCB'S AND SHIPPED, RATHER THAN THOSE FOR THE ENTERTAINMENT EQUIPMENT WHICH HAD ALSO BEEN MENTIONED IN THE JAPANESE PROPOSAL. JAPAN TOOK NOTE OF THE US REMARKS RE ENTERTAINMENT EQUIPMENT AND RECOMMENDED THAT ITS PROPOSAL BE HELD PENDING RESOLUTION OF IL 1565.

4. DISCUSSION TURNED TO THE UK PROPOSAL (1564/2) TO

AMENT II (C), AND ALL DELS WITH OUTSTANDING PARALLEL PROPOSALS WITHDREW THEM. ITALY ENTERED A GENERAL RESERVE ON THE SUBITEMS CONTAINING TEMPERATURE PARAMETERS IN THE INTEREST OF ENCOURAGING A SINGLE
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TEMPERATURE RANGE FOR ALL SUBITEMS WHICH IT HOPED WOULD BECOME -40 TO #85 C. ALL DELS AGREED ON THE HEADING PROPOSED BY THE UK.

5. ALL DELS AGREED TO THE TWO NOTES IN THE HEADING WITH NOTE (C)(2) AMENDED TO READ, "(2) ENCAPSULATED AND TESTED CIRCUITS WHICH ARE NOT DESIGNED OR RATED AS RADIATION HARDENED, AND WHICH ARE NOT ENCAPSULATED IN HERMETICALLY SEALED CASES OTHER THAN THOSE USING A TO-5 OUTLINE (.305 INCH TO .370 INCH DIAMETER) AND WHICH ARE;" SUB-JECT TO THE UNDERSTANDING THAT THE TO-5 CANS WILL ALSO BE GOVERNED BY THE TEMPERATURE CUTOFFS APPROPRIATE TO THE TYPE OF CIRCUITS PUT IN THEM.

6. AFTER DISCUSSION IN COMMITTEE AND A TECHNICAL WORKING GROUP, THE COMMITTEE DEVELOPED (C)(2)(I) AS FOLLOWS:
"TYPES DESIGNED FOR OPERATION AS DIGITAL LOGIC CIRCUIT ELEMENTS HAVING ALL OF THE FOLLOWING CHARACTERISTICS:
(A) A PRODUCT OF THE TYPICAL BASIC GATE PROPAGATION DELAY TIME, IN NANOSECONDS, AND THE POWER DISSIPATION PER BASIC GATE, IN MILLIWATTS, NOT LESS THAN 70 PICOJouLES (I.E. SPEED, POWER PRODUCT, GATE NOT LESS THAN 70 P.J.);
(B) A TYPICAL PROPAGATION DELAY TIME NOT LESS THAN 5 NANOSECONDS; AND (C) A RATED OPERATING TEMPERATURE RANGE NOT LOWER THAN -20 C. OR ABOVE 75 C." IN VOTING, ALL DELS AGREED (GERMANY AD REF) EXCEPT JAPAN, WHICH RESERVED ON (A) IN PRINCIPLE (BECAUSE SOME CIRCUITS SUCH AS TTL 74 L NOW UNEMBARGOED WOULD BE CAUGHT). IN ITS PREAMBLE TO THE DISCUSSIONS THE UK HAD SAID THAT ITS APPROACH TO THE REVISION HAD BEEN BASED ON A DESIRE TO EMPLOY THE SPEED/POWER PRODUCT/GATE CONCEPT TO DEAL WITH "FAMILIES" OF CIRCUITS. HOWEVER, ON A CURVE OF SPEED-POWER PRODUCT AT 70 P.J. IT BECAME APPARENT THAT "FAMILIES" SUCH AS THE 7400 SERIES FELL ON BOTH SIDES OF THE EMBARGO. NEVERTHELESS, ITALY AND THE NETHERLANDS FOUND THE FAMILY CONCEPT ATTRACTIVE AND THROUGHOUT THE FOREGOING DEBATE REQUESTED THAT AN ATTEMPT BE MADE TO PERMIT THE TREATMENT OF CIRCUITS ON FAMILIES EITHER THROUGH PARAMETERS OR AN INTERPRETIVE NOTE. THAT QUESTION WAS DEFERRED TO A TWG WHICH MET MARCH 21 WHEN THE EXPERTS PRESENT CAN ASSEMBLE FOR THAT PURPOSE.
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(THE US PROPOSED DELETION OF THE WORD "BIPOLAR" FROM THE UK PROPOSAL WILL IF ADOPTED EXTEND COVERAGE TO ROM'S, PROMS AND OTHER DEVICES WHOSE COVERAGE HAD BEEN IN DOUBT AND OF CONCERN TO WASHINGTON AGENCIES.)

7. (C)(2)(II)(A) WAS AMENDED TO DELETE THE WORDS "P-CHANNEL AND N-CHANNEL," AND ACCEPTED BY ALL DELS EXCEPT JAPAN, WHICH RESERVED PENDING COMMITTEE DECISION TO EXCISE THE SAME WORDS FROM UK PROPOSED NOTE 5, AND ITALY RE DESIRE FOR CONSISTENT TEMPERATURE CUTOFFS THROUGHOUT THE ITEM. IN VOTING ON DELETING THE SAME WORDS FROM NOTE 5, THE US RESERVED FOR STUDY OF THE EFFECTS OF PUTTING -40 TO (85 C TEMPERATURE RANGE. JAPAN NOTED THAT US MILITARY CATALOGUES OFFER P, N, AND C CIRCUITS AT A -55 TO (125 C RANGE AND SHOWED THE USDEL A COPY OF US CASE (75) 427 DESCRIBING THE FORMER AS A CIVILIAN TEMPERATURE RANGE. THE UK AND NETHERLANDS AGREED THAT CIVIL OUTDOOR EQUIPMENT REQUIRED THE -40 TO #85 C. RANGE BECAUSE "THERE IS NO DIFFERENCE BETWEEN MILITARY AND CI-

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VILIAN COLD."

8. ALL DELEGATIONS (US AND FRANCE AD REF), AGREED TO (C)(2)(II)(B) WITH DELETION OF THE WORDS, "P-CHANNEL" AND "WITH 16 TERMINALS OR LESS". HOWEVER, JAPAN RESERVED ON THE TEMPERATURE PARAMETER. (C)(2)(III) WAS ACCEPTED BY ALL DELEGATIONS, BUT (IV)(C) ENCOUNTERED RESERVES BY ITALY (FOR DELETION) AND THE US (FOR STUDY).

9. THE US ACCEPTED TO SUBITEM (V) EXCEPT RESERVED ON PART (C) STATING MORE TIME WAS NEEDED TO STUDY THE APPROPRIATE FIGURE. ITALY RESERVED ON THE TEMPERATURE RANGE, WHILE CANADA REQUESTED SOME TECHNICAL CONCERN ON THE CONDITIONS FOR MEASURING SOME OF THE PARAMETERS MENTIONED. JAPAN RESERVED ON SUB-PARAGRAPHS (C), (D), AND (E) REQUESTING MORE TIME FOR STUDY. ALL OTHER DELS ACCEPTED.

10. THE US RESERVED IN PART (VI) PENDING FURTHER STUDY. ALL OTHER DELS AGREED (SOME AD REF). ALL DELS AGREED (US AD REF ON ALL, FRANCE AND CANADA AD REF ON (C) TO PART (VII). ALL DELS AGREED TO PARTS (VIII) AND (IX), ALBEIT SOME DELS WANTED WATCH CIRCUITS INCLUDED IN (IX). ALL DELS AGREED IN PRINCIPLE TO PART (X) WITH CONFIDENTIAL

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THE WORD "BIPOLAR" DELETED. THE DIFFERENCES CONSISTED OF PREFERENCES FOR DIFFERENT TEMPERATURE RANGES.

11. ALL DELS AGREED TO NOTE 1 SINCE IT REPRESENTED NO CHANGE FROM THE PRESENT NOTE 1. ALL DELS COULD ACCEPT THE UK'S NEW NOTE 2 (OLD NOTE 5 AMENDED) EXCEPT THE US WHICH POINTED OUT SAME DIFFICULTIES EXPRESSED EARLIER CONCERNING SUBITEM (B) AND PCB'S FOR UNEMBARGOED CALCULATORS. THE UK AGREED TO LOOK AT THIS FURTHER. CANADA REFERRED THE US TO COCOM DOC (71) 415, A US CASE DEALING WITH FS3 PCB'S WHICH THE US DID NOT CONSIDER EMBARGOED ALBEIT THEY CONTAINED EMBARGOED COMPONENTS.

12. ALL DELS AGREED (EXCEPT ITALY AND JAPAN EXPRESSING DESIRE FOR WIDER TEMPERATURE RANGE) TO THE UK PROPOSED NEW NOTE 3 FORMERLY NOTE 7 PROPOSED BY THE UK). NOTE 4 WAS ACCEPTED BY ALL DELS SINCE IT REPRESENTED NO CHANGE FROM THE CURRENT NOTE 3. NOTE 5 WAS ACCEPTED BY ALL DELS EXCEPT THE US AND NOTE 6 WAS ACCEPTED SINCE IT IS IDENTICAL TO THE CURRENT NOTE 6.

13. FOLLOWING IS US DRAFT REPORT OF MARCH 21 TWG:
REPORT OF A TECHNICAL WORKING GROUP FOR IL 1564
SEMICONDUCTORS

A. ON MARCH 21, 1975, AT THE REQUEST OF THE COMMITTEE, EXPERTS REPRESENTING FRANCE, JAPAN, THE NETHERLANDS, UNITED KINGDOM AND UNITED STATES EXAMINED THE QUESTION RAISED BY SEVERAL DELEGATIONS CONCERNING A DEFINITION FOR "FAMILIES" OF CIRCUITS. THE EXPERTS PERCEIVED THIS QUESTION AS AN ADMINISTRATIVE ONE. THE GROUP AGREED TO RECOMMEND TO THE COMMITTEE THE ADOPTION OF THE FOLLOWING AS AN INTERPRETIVE NOTE TO IL 1564:

"A 'LOGIC FAMILY' IS DEFINED AS A SERIES OF DIGITAL LOGIC CIRCUITS UTILIZING A COMMON INPUT GATING STRUCTURE, AND MADE UP FOR THE GREATER PART OF SUCH STRUCTURES. SUCH A 'LOGIC FAMILY' INCLUDES, FOR EXAMPLES, GATES, FLIP-FLOPS, COUNTERS, SHIFT REGISTERS, AND MULTIPLIERS, BUT NOT MEMORIES."

B. WITH REGARD TO A REQUEST BY THE DELEGATION OF ITALY TO DELETE (C)(2)(IV)(C) AS A MEANS OF RELEASING AN CONFIDENTIAL

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AMPLIFIER CIRCUIT FROM EMBARGO, THE EXPERTS AGREED THAT THE CIRCUIT IN QUESTION IS TECHNICALLY SUITABLE FOR TREATMENT UNDER NOTE 6 OF THE DEFINITION.

C. THE UNITED STATES EXPERTS ASKED THAT DELEGATIONS STUDY SMALL POWER DEVICES IN (A) THE 1 TO 5 WATT RANGE ABOVE 1 MHZ, AND (B) THE 0.5 WATTS LEVEL AT 10 MHZ IN ORDER TO DETERMINE THE APPROPRIATE SLOPE FOR THE RATED BANDWIDTH AND POWER-OUTPUT CURVE IN THOSE AREAS.

D. JAPAN AND THE NETHERLANDS HAD REQUESTED A RECOMMENDATION FOR SUITABLE TREATMENT FOR CLOCK AND WATCH CIRCUITS. THE GROUP AGREED THAT THOSE CIRCUITS MIGHT BE HANDLED BY ADMINISTRATIVE NOTE AS FOLLOWS:
"GOVERNMENTS MAY PERMIT AS ADMINISTRATIVE EXCEPTIONS, THE EXPORT OF TYPES SPECIALLY DESIGNED FOR USE IN WATCHES AND CLOCKS."

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E. THE EXPERTS RECALLED THAT THE STANDARDIZATION OF TEMPERATURE PARAMETERS THROUGHOUT THE DEFINITION OF IL 1564 HAD BEEN DISCUSSED EXTENSIVELY DURING THE TECHNICAL WORKING GROUP CONVENED FOR ROUND I. MEREOVER, THE EXPERTS WERE UNANIMOUS IN THEIR BELIEF THAT THE QUESTION OF ASSIGNING TEMPERATURE PARAMETERS IS NOT A TECHNICAL ISSUE SO MUCH AS A POLICY QUESTION APPROPRIATE FOR COMMITTEE DECISION.

F. THE GROUP RECOMMENDED TO THE COMMITTEE THE FOLLOWING FORMAT FOR (C)(2)(I):

"TYPES DESIGNED FOR OPERATION AS DIGITAL LOGIC CIRCUIT ELEMENTS HAVING ALL OF THE FOLLOWING CHARACTERISTICS:

(A) A PRODUCT OF THE TYPICAL BASIC GATE PROPAGATION DELAY TIME, IN NANOSECONDS, AND THE POWER DISSIPATION PER BASIC GATE, IN MILLIWATTS, NOT LESS THAN 70 PICOJoules (I.E.; SPEED/POWER PRODUCT/GATE NOT LESS THAN 70 P.J.);

(B) A TYPICAL PROPAGATION DELAY TIME NOT LESS THAN 5 NANOSECONDS, AND

(C) A RATED OPERATING TEMPERATURE RANGE NOT LOWER THAN -20 C. OR ABOVE +75 C."

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14. ACTION REQUESTED: FURTHER CONSULTATION WITH SEMI-CONDUCTOR TECHNICAL ADVISORY COMMITTEE, AND FORMULATION AND TRANSMISSION OF US POSITION ON SUBITEMS WHICH REMAIN OPEN.
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